



Office of Energy Projects Energy Infrastructure Update For February 2014

Natural Gas Highlights

- CIG received authorization to place into service the remaining facilities to its High Plains 2013 Expansion Project which will provide 225 MMcf/d of capacity to its existing High Plains mainline system in Weld County, CO.
- Texas Eastern received authorization to construct and operate its TEAM 2014 Project. This project will provide 600 MMcf/d of transportation capacity on its Penn-Jersey system for delivery to markets in the Midwest and Southeast.
- Sabine Pass Liquefaction received authorization to increase the total LNG capacity of its export facility, currently under construction, in Cameron Parish, LA from an authorized 2.2 Bcf/d to a maximum capacity of 2.76 Bcf/d.
- Excelerate Liquefaction and Lavaca Bay Pipeline requested authorization to construct and operate an LNG export terminal (1,380 MMcf/d of liquefaction) near the port of Port Lavaca-Point Comfort, TX, and a pipeline and related facilities in Calhoun and Jackson Counties, TX to provide 1,454 MMcf/d of capacity to the proposed terminal.
- Algonquin requested authorization to construct and operate its AIM Project which will provide 342 MMcf/d of firm transportation capacity for 10 shippers from Algonquin's Ramapo, NY receipt point to delivery points in New England.
- National Fuel requested authorization to construct and operate its West Side Expansion and Modernization Project. This project will provide 175 MMcf/d of capacity for two shippers and improve service on National Fuel's system in PA.

Natural Gas Activities in February 2014

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service	1			225.0	7.7	0
Certificated	3			745.0	64.7	81,800
Proposed	6			2,649.0	97.1	115,940
Storage						
Placed in Service	0	0.0	0			0
Certificated	0	0.0	0			0
Proposed	0	0.0	0			0
LNG (Import & Export)						
Placed in Service	0	0	0			0
Certificated (Export)	1	0	560			0
Proposed (Export)	1	10.6	1,380			0

Source: Staff Database

Natural Gas Activities through February 28, 2014 Through February 28, 2013

Status	No. of Projects	Storage Capacity (Bcf)	Deliverability (MMcf/d)	Capacity (MMcf/d)	Miles of Pipeline	Compression (HP)
Pipeline						
Placed in Service through February 28, 2013	1 2			225.0 216.0	7.7 10.2	0 15,400
Certificated through February 28, 2013	3 4			745.0 1,570.6	64.7 11.5	81,800 55,075
Storage						
Placed in Service through February 28, 2013	2 1	0.45 0.2	0 0			4,800 0
Certificated through February 28, 2013	0 3	0.0 7.3	0 765			0 9,240
LNG (Import & Export)						
Placed in Service through February 28, 2013	0 0	0 0	0 0			0 0
Certificated (Export) through February 28, 2013	1 0	0 0	560 0			0 0

Source: Staff Database



Office of Energy Projects Energy Infrastructure Update For February 2014

Hydropower Highlights (nonfederal)

- Free Flow Power Corporation, on behalf of its subsidiaries, filed seven original license applications for proposed projects that would be located at existing U.S. Army Corps of Engineers' dams on the Monongahela and Allegheny Rivers in WV and PA. The proposed projects include the 6.0 MW Opekiska Lock and Dam Hydroelectric Project No. 13753, 17.0 MW Allegheny Lock and Dam No. 2 Hydroelectric Project No. 13755, 5.0 MW Morgantown Lock and Dam Hydroelectric Project No. 13762, 12.0 MW Grays Landing Lock and Dam Hydroelectric Project No. 13763, 13.0 MW Maxwell Lock and Dam Hydroelectric Project No. 13766, 12.0 MW Monongahela Lock and Dam No. 4 Hydroelectric Project No. 13767, and 5.0 MW Point Marion Lock and Dam Hydroelectric Project No. 13771.

Hydropower Project Activities in February 2014

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	7	70.000	0	0	0	0	7	70.000
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Issued								
License	0	0	0	0	0	0	0	0
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	0	0	0	0	0	0	0	0
10-MW Exemption	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database

Hydropower Project Activities Year to Date (through February 28, 2014)

Status	Conventional		Pumped Storage		Hydrokinetic		Total No. of Projects	Total Capacity (MW)
	No.	Capacity (MW)	No.	Capacity (MW)	No.	Capacity (MW)		
Filed								
License	7	70.000	0	0	0	0	7	70.000
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	2	49.400	0	0	0	0	2	49.400
Issued								
License	1	0.750	0	0	0	0	1	0.750
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0
Placed in Service								
License	1	7.000	0	0	0	0	1	7.000
10-MW Exemption*	0	0	0	0	0	0	0	0
Capacity Amendment	0	0	0	0	0	0	0	0
Conduit Exemption	0	0	0	0	0	0	0	0

Source: Staff Database



Office of Energy Projects Energy Infrastructure Update For February 2014

Electric Generation Highlights

- Basin Electric's 45 MW Pioneer Generating Station Unit 2 project in Williams County, ND is online. The power generated serves the electricity loads of drilling and oil production activities of the Bakken formation development in the state.
- Pheasant Run Wind II LLC's 75 MW Pheasant Run Wind project in Huron County, Wisconsin is online. The power generated is sold to DTE Energy Co. under long-term contract.
- Baywa r.e. Brahms LLC's 20 MW Brahms Wind project in Curry County, NM is online. The power generated is sold to Western Farmers Electric Cooperative and Farmers Electric Cooperative Corp under long-term contracts.
- Fort Hays State University's 4 MW Fort Hays State University Wind Farm project in Ellis County, KS is online. The power generated is used on site at the university campus.
- Recurrent Energy has completed four solar projects totaling 73 MW in California: 40 MW Recurrent Rosamond Solar, 5 MW Recurrent Rio Grande, and 10 MW Recurrent Columbia 3 in Kern County; and 18 MW Recurrent Victor Phelan Solar One in San Bernardino County. The power generated from all four projects is sold to Southern California Edison under long-term contracts.
- SunE DM LLC's 6 MW Davis Monthan AFB Solar expansion project in Pima County, AZ is online.
- Garrell Solar Farm LLC's 5 MW Garrell Solar Farm project in Columbus County, NC is online. The power generated is sold to Progress Energy Carolinas under long-term contract.
- Moore Solar Farm LLC's 5 MW Moore Solar Farm project in Rockingham County, NC is online. The power generated is sold to Duke Energy Carolinas under long-term contract.
- DTE Energy Co.'s 50 MW Echo Wind Park phase 1 project in Huron County, MI is online.
- Ameresco Inc.'s two LFG-to-energy projects in CA: Ameresco Vasco Rd. LFG in Alameda County, and Ameresco Forward LFG Generation Facility in San Joaquin County, each 4.35 MW, are online.

New Generation In-Service (New Build and Expansion)

Primary Fuel Type	February 2014		January – February 2014 Cumulative		January – February 2013 Cumulative	
	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)	No. of Units	Installed Capacity (MW)
Coal	0	0	0	0	0	0
Natural Gas	1	45	1	45	6	358
Nuclear	0	0	0	0	0	0
Oil	0	0	0	0	2	4
Water	1	7	1	7	4	6
Wind	6	148	13	383	9	962
Biomass	7	14	16	27	27	45
Geothermal Steam	0	0	3	30	0	0
Solar	17	97	44	439	46	759
Waste Heat	0	0	0	0	1	36
Other	0	0	1	1	0	0
Total	32	311	79	932	95	2,170

Source: Data derived from Ventyx Global LLC, Velocity Suite.



Office of Energy Projects Energy Infrastructure Update For February 2014

Total Installed Operating Generating Capacity

	Installed Capacity (GW)	% of Total Capacity
Coal	325.89	28.24%
Natural Gas	485.57	42.08%
Nuclear	106.87	9.26%
Oil	46.02	3.99%
Water	98.24	8.51%
Wind	61.08	5.29%
Biomass	15.87	1.38%
Geothermal Steam	3.87	0.34%
Solar	8.50	0.74%
Waste Heat	1.13	0.10%
Other	0.80	0.07%
Total	1,153.82	100.00%

Source: Data derived from Ventyx Global LLC, Velocity Suite.

Electric Transmission Highlights

- Ameren Transmission announced plans to start construction on the 380 mile, 345 kV Quincy – Terre Haute Transmission Line in late 2014. The project is estimated to cost \$1.1 billion with a projected completion date of 2019.
- WestConnect's draft regional transmission plan proposes 8,953 miles of transmission projects. The projects are expected to cost approximately \$20.6 billion and be completed by 2024. The plans also include nine interstate transmission projects.

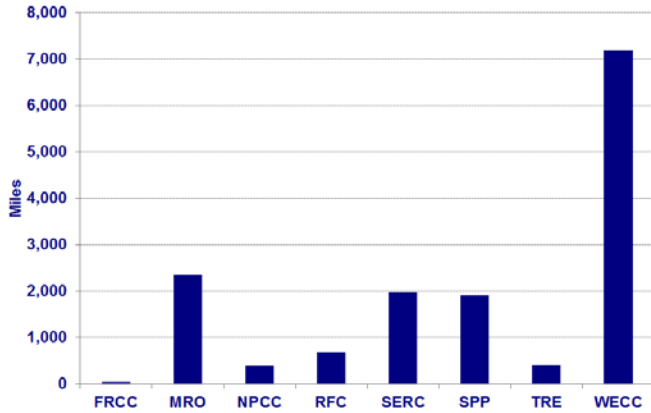
Voltage (kV)	Transmission Projects Completed				Proposed Transmission Projects In-Service by February 2016	
	February 2014	February 2013	January –February 2014 Cumulative	January – December 2013 Cumulative	High Probability of Completion	All
	Line Length (miles)					
≤230	0.0	0.0	0	363.4	982.5	4,226.5
345	0.0	178.0	143.3	2,757.2	2,619.0	5,190.3
500	0.0	0.0	0	466.0	1,401.7	5,532.8
Total U.S.	0.0	178.0	143.3	3,586.6	5,003.2	14,949.6

Sources: Data derived from Staff Database and North American Electric Transmission Projects ©2014 The C Three Group, LLC

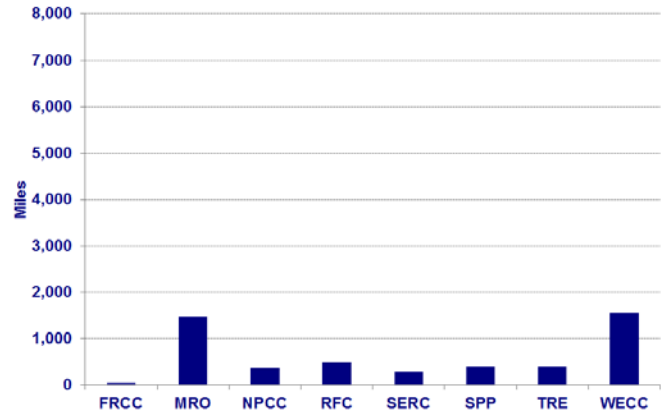


Office of Energy Projects Energy Infrastructure Update For February 2014

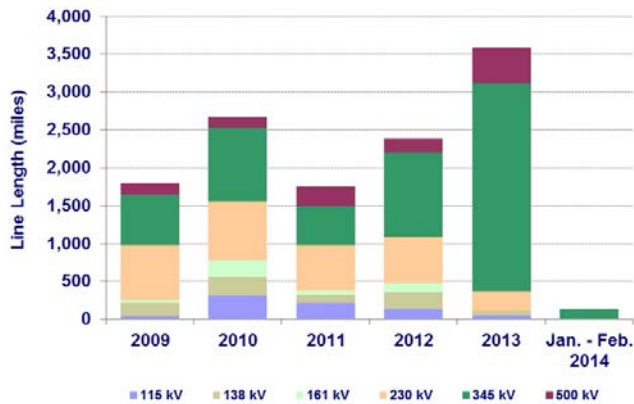
All Transmission Projects with a Proposed In-Service Date by February 2016



Transmission Projects with a High Probability of being completed by February 2016



New Transmission Projects by Voltage



Sources: Data derived from Staff Database and North American Electric Transmission Projects ©2014 The C Three Group, LLC
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